

**PACKET ORDERING METHOD AND APPARATUS IN A MOBILE  
COMMUNICATION NETWORK EMPLOYING HIERARCHICAL ROUTING  
WITH DATA PACKET FORWARDING**

5      **Abstract of the Disclosure**

The present invention, in particular, refers to is a data packet ordering method in a mobile communication network employing hierarchical routing with data packet forwarding comprising the step of providing at least one data message encompassing a predefined sequence of data packets, forwarding 10 at least one of said data packets of the sequence via a first network element over a first transmission path to a user equipment, whereby a part of the data packets are temporarily buffered in the first network element during transmission, establishing a second transmission path, while forwarding the data packet sequence, such that the remaining data packets of the sequence 15 not yet transmitted over the first path are forwarded via a second network element, forwarding of the data packets buffered in the first network element to the second network element for providing all data packets comprised by the data packet sequence to the user equipment, receiving and ordering of the data packets within said second network element according to the packet data 20 priority given by the data packet sequence, forwarding the ordered data packets to the user equipment.